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DEPARTMENT OF THE NAVY

USS WORDEN (CG-18) FPO SAN FRANCISCO 96683-1142

> 5750 CG18/SO

APR 25 1990

From: Commanding Officer, USS WORDEN (CG 18)
To: Director of Naval History (OP-09BH)

Subj: USS WORDEN (CG 18) COMMAND HISTORY FOR 1989

Ref: (a) OPNAVINST 5750.12D

Encl: (1) Commanding Officer's Biography

(2) Commanding Officer's Photograph

(3) Equipment Upgrades Completed in ROH

- l. In accordance with reference (a), the following information
 is submitted:
 - a. Command Composition and Organization.
- Mission: Guided Missile Cruiser primarily assigned for Anti-Air (AAW) screening of fast carrier task forces, with additional substantial capability for both Anti-Surface (ASUW) and Anti-Submarine Warfare (ASW).
- Organizational structure: assigned to Commander Naval Surface Group Middle Pacific.
- Name of Commanding Officer:

 01 Jan 89 20 Jul 89 Captain William J. Hancock,
 U.S. Navy

 21 Jul 89 31 Dec 89 Captain William B. Hunt, U.S.
 Navy
 - Home Port: Pearl Harbor, Hawaii
 - b. Chronology.

January

- Continuation of New Threat Upgrade (NTU) extended Repair Overhaul (ROH) at Pearl Harbor Naval Shipyard (PHNSY). Completion date scheduled for 21 December 1989.
 - Ship remains in PHNSY drydock #4
 - Commenced Combat Systems Phased Testing

February

- Successfully completed gage calibration facility recertification. (28 March)

March

- Completed NTU ROH 25% conference (8-10 March)

April/May

- Completed Surprise Disbursing Audit (21-25 April)

June

- Successfully undocked and moved to pier bravo 13 at PHNSY (6 June)

July

- Completed NTU ROH 50% conference (19 June)
- Change of Command; Captain William B. Hunt relieved Captain William J. Hancock as Commanding Officer. Ceremony conducted at Naval Station Pearl Harbor (21 July)

August

- Conducted ASW Team Training Assist (7-11 August)
- Conducted Ship's Electronic Readiness Team (SERT) Mobile Training Team (MTT) assist. (21-25 August)
 - Conducted ASW Team Training Assist (21-25 August)

September

- Conducted NAVRESSO Fleet Assistance Team Training (5-8 Sen)
- Conducted Combat Systems Team Training in San Diego (9-30 Sep)

October

- Completed NTU ROH 75% conference (11 Oct)
- Completed pre-engineering Light-Off Exam (LOE) MTT (16 Oct)
- Completed habitability work in berthing compartments/heads (31 Oct)

November

- Crew move aboard completed (20 Nov)
- Completed Combat Systems Team Training in San Diego (4-22 Nov)
 - LOE completed (28 Nov)
 - Engineering Light Off (29 Nov)
 - Commenced engineering steam testing

December

- NTU ROH completion date extended as a result of unforseen substantial engineering problems encoutered late in ROH (21 Dec)
- Galley, vegetable preparation and mess decks habitability projects completed (31 Dec)

- Engineering Operational Sequencing System Verification Complete (31 Dec)
 - Completed NTU equipment installation (31 Dec)
- c. Narrative. The year began with USS WORDEN continuing it's most extensive overhaul in many years at the Pearl Harbor Naval Shipyard, Hawaii. The primary reason for the overhaul was the installation the of New Threat Upgrade (NTU) improved AAW suite. The overhaul also resulted in vast improvements throughout the ship, including engineering, damage control, messing and berthing spaces.
- 1. Combat Systems. WORDEN completed NTU installation at the end of 1989. The Combat Information Center (CIC) was completely renovated from a modular design to an open and less restrictive operations arena. All functions of detection, tracking, display and decision are now done on the 03 level via the NTU Combat Systems. The NTU installation will enable WORDEN to successfully meet any air threat into the next century. Major components of the Combat Systems NTU consist of new and upgraded equipment that includes:
- A. Search Radars: Air threat detection and tracking are provided by Radar Set AN/SPS48E and Radar Set AN/SPS49(V)5. The integrated Automatic Detection and Tracking System (AN/SYS2(V)1) correlates SPS48E and SPS49 tracks and provides CDS with a single track list from both air search radars. Surface threat detection and navigation capabilities are provided by the AN/SPS-10F via the new SPA 25G Radar Repeaters. The new URN-25 TACAN was also installed to enhance aircraft identification.
- B. Combat Direction System (CDS): The CDS is the central data collection, processing and distribution center for combat systems. The CDS is divided into three major groups: data processing, data display and data communications.
- (1) Data processing receives data from all sensors, maintains track of the data, evaluates the accumulated data and assigns or recommends the most suitable weapon system available to engage the threat. To facilitate the collection evaluation and decision making process CDS utilizes the AN/UYK43(V) computer set.
- (2) The data display group receives data from the data processing group and sensor systems and displays the information in CIC on the 0J194/0J535 consoles (which replaced the old AN/UYA-4 consoles). Additionally, 14 automated status boards (ASTABS) and 2 remote display monitors (RDM) were installed to enhance data display.
- (3) The data communications group is the command link between CDS on WORDEN and other fleet units. These include the following:

Link 11 - Ship-to-ship data exchange Link 4A - Ship-to-aircraft data exchange Link 14 - Ship-to non-NTDS ship data broadcast

of CDS info

- C. Weapons Decision System (WDS) (MK14 MOD 10): Several changes were made in upgrading WDS from MOD 9 to MOD 10. All changes were tactically significant, including:
- (1) Remote Track Launch on Search (RTLOS). This feature is used in conjunction with the SGS/AC Gridlock system and facilitates Silent Sam. WORDEN can now engage target symbology from other link ll ships without benefit of holding actual video from own ship's radars.
- (2) Engageabiliity Bypass (ENGABYPASS) allows the system to engage targets as much as 40% beyond WDS program intercept range depending on target size.
- (3) Engage Preferred Track (ENGPRFTCK) used to engage high speed inbound targets when scheduler is full and immediate engagement is required.
- (4) Engage next (ENGNXT) was formerly an operational intervention using track number call up. Now by hooking the target and depressing the job WDS is forced to reschedule and engage the target ahead of other threats.
- (5) Stand Alone (STALO) is a two option mode. If CDS is lost, the system defaults to STALO. At this time the WDS operator must choose between WDS STALO SYSII control where DTM sets relative threat and tracks targets or STALO WDS control where the WDS operator tracks and assigns relative threat.
- (6) WDS no longer accepts single source kill assessment. The MOD 9 program used to complete kill sequence by only SYR-1 data. MOD 10 now requires two source assessment, i.e., (SYR-1 WDS), (SYR-1/MK 152 computer), (SYR-1/55B operator).
- D. <u>Close in Weapons System</u>. Upgraded installation took place.
- E. <u>Terrier Weapons System</u>. Upgrade was in the form of changing from an analog launcher group MK76 MOD 7 to a fully digital launcher group MK 76 MOD 11.

- F. Radar Environmental Simulator System (RESS). Installed during 1989, RESS provides a capability to simulate radar and environmental data for Combat System testing and training. RESS has the capability to generate 63 targets, 18 jamming platforms, chaff, sea cluter and rain clutter.
- G. <u>Communications</u>. The suite was upgraded to include the Single Audio System increasing the reliability of WORDEN's communications cababilities.
- 2. Habitability. The overall habitability project proved to be quite a challenge for WORDEN crewmembers, SIMA Pearl Harbor and PHNSY. WORDEN crewmembers completely gutted, prepped, redesigned and reinstalled all berthing compartments, heads, the Wardroom and the CPO mess. Additionally, all interior decks were stripped of tile and replaced with new underlayment and finished with the new epoxy flake deck system done completely by crewmembers. PHNSY assisted in the habitability project by providing welding assists, underlayment installation expertise and by accomplishing an exceptional number of structural repairs when needed. SIMA Pearl Harbor completely ripped out and reinstalled all new equipment in the crew's galley, Wardroom pantry, CPO galley, vegetable preparation area and the mess decks. The cost of WORDEN's habitability package in materials alone exceeded \$250K.
- 3. Engineering. WORDEN'S FY89 NTU ROH planning included a standard engineering work package. The scope of the work increased dramatically after the overhaul began. During ripout, numerous structural repairs were identified. This emergent work was added to the existing work package necessitating the rescheduling of jobs which eventually prolonged the ROH completion.

In addition to structural repairs, the engineering overhaul consisted of replacing tubes in all of 4 main propulsion boilers and the overhaul of dozens of auxiliary pumps, blowers, lube oil purifiers and electrical controllers. Hundreds of valves were rebuilt and various steam, fuel, lube oil, and salt water systems had extensive piping replacement. The engineering work package culminated with the commencement of steam testing in November.

In addition to the above mentioned work, WORDEN was also given a foc'sle to fantail sprucing up. This included sandblasting and repainting the entire hull, and renovation of numerous office and work spaces, passegeways and storage areas. All interior and exterior bulkheads were stripped, sanded and painted. Several spaces were completely overhauled, including the bridge, sickbay, ship's office and officer's staterooms. A vast majority of this work was accomplished primarily by ship's force.

Originally scheduled to be completed in December 1989, the ROH continued through to the end of the year, and is now scheduled to be completed in February 1990.

d. Supporting Documents. Supporting documents are forwarded in enclosures (1) thru (3).

William B. Hunt

CAPTAIN WILLIAM B. HUNT

Captain William B. Hunt was born in (b) (6) and raised in nearby Alexandria, VA. He graduated from the U.S. Naval Academy on 9 June 1965. His initial assignment was to San Diego on the precommissioning crew of USS BROOKE (FFG 1). On BROOKE, Captain Hunt served as Communications Officer, First LT and CIC Officer.

Following graduation from the U.S. Naval Destroyer School, Class 22, Captain Hunt remained in Newport, R.I as Engineer Officer of USS JOHN WILLIS (DE 1027). His subsequent tour on USS WILLIAM M. WOOD (DD 715) was highlighted by two Mediterranean deployments where WOOD provided surveillance information on the newest Soviet naval ships. Capt Hunt served as Operations Officer and Weapons Officer on this Norfolk, Virginia based destroyer. Ashore, he was assigned to instruct midshipmen at the U.S. Naval Academy in the Weapons and Systems Engineering Dept. He was selected to serve his last year at Annapolis as the Aide to the Superintendent.

Returning to sea, Captain Hunt was Weapons Officer on USS WILLIAM H. STANDLEY (CG 32) for a tour that included two Mediterranean deployments. He attended the Command and Staff Course at the U.S. Naval War College in Newport, R.I, where he was a distinguished graduate and won the coveted William S. Sims Award. He remained ashore as Aide to the President of the Naval War College.

In Hawaii, Captain Hunt was Executive Officer of the USS WHIPPLE (FF 1062). An eventful Western Pacific deployment included participating in the Independence Ceremony for the Solomon Islands and effecting the largest documented at-sea rescue in the U.S. Naval History when WHIPPLE rescued 410 Vietnamese refugees from a crippled 20 meter boat in rough South China Seas. Furthermore, WHIPPLE received the Golden Anchor Award for retention. Captain Hunt then served for two and one half years as Director of Manpower Requirements for the U.S. Pacific Fleet.

Following the standard CO pipeline, Captain Hunt relieved as Commanding Officer of USS JULIUS A FURER (FFG 6) on 11 March 1983 in the Panama Canal Zone. JULIUS A. FURER remained in the Central America area for a three month operation. On 12 November 1984, JULIUS A. FURER completed a complex seven and one half month deployment to the Mediterranean, Indian Ocean and Persian Gulf. His 35 month command tour took his guided missile frigate over 93,000 miles.

After his command tour, Captain Hunt was assigned to the Pentagon in the joint assignment of Military Assistant to the Deputy Under Secretary of Defense for Trade Security Policy. In light of his experience with technology security, he was chosen as the first Military Advisor to the Coordinating Committee for Multilateral Strategic Controls (COCOM) in Paris. This highly charged political assignment dealt with establishing proper levels of Western technology and high technology equipment to be exported to the proscribed countries of the East Bloc, China and others. Moreover, Western countries' national export laws, high priced exports to the East and illegal diversion of high technology to proscribed countries ensured constant involvement in COCOM business by heads of state, national legislatures and the highest levels of government and industry. Following his two year diplomatic tour in Paris, Captain Hunt received orders be Commanding Officer of USS WORDEN (CG 18).

Captain Hunt's awards include the Defense Superior Service Medal, the Meritorious Service Medal, Navy Commendation Medal (two awards), National Defense Service Medal and Humanitarian Service Medal. He holds a Master of Science Degree in Administration (System Management) from George Washington University in Washington D.C. He is married to the former (b) (6) and has the following children:

[b] (6) The Hunts currently reside in

USS WORDEN (CG 18)

COMMAND HISTORY 1989

EQUIPMENT UPGRADES

New Equipment Intalled

SRN-25 NAVIGATION RECEIVER (GPS) SPA-25G RADAR REPEATERS AN/ULQ-16 AN/OJ-194 CONSOLES AN/OJ-535 CONSOLES AN/URN-25 TACAN MK76 MOD 10 LAUNCHER GROUP RADAR ENVIRONMENTAL SIMULATOR SYSTEM DAMAGE CONTROL WIREFREE COMMS SYSTEM (DC WIFCOM) LP AIR SYSTEM SHORE CONNECTORS 5 - REEFER/REFRIGERATORS (CREWS GALLEY) 3 - COPPERS KETTLES (CREWS GALLEY) COUNTER TOPS (CREWS GALLEY) TABLE AND CHAIRS FOR 92 PATRONS DISHWASHER (CPO MESS) REEFER/REFRIGERATOR (CPO MESS) DISHWASHER (WARDROOM) GRILL (WARDROOM) 204 - MODULAR RACKS